

# Datasheet

## RG142 Coaxial Cable

### Construction



Cable Marking: RG142 FEP

Item	Material	Diameter (mm)
Inner Conductor	Silver Plated Copper Clad Steel	0.94 ± 0.0254
Dielectric	PTFE(Nature)	2.95 ± 0.15
First Shield	Silver Plated Copper Braid(16/7/0.12)	95% ± 5%
Second Shield	Silver Plated Copper Braid(16/7/0.12)	95% ± 5%
Jacket	FEP(Brown)	4.95 ± 0.15

### Electrical Characteristics

Capacitance (pF/m)	96.5
Impedance (Ω)	50 ± 2
Velocity of Propagation (%)	69.5
Conductor DCR (Ohm/km)	63.3
Outer Shield DCR (Ohm/km)	7.5
Max Operating Frequency (GHz)	12.4
Max Operating Voltage (RMS)	1900.0
Corona Extinction voltage (VRMS)	1900.0
Voltage Withstand (VRMS)	5000.0
Spark Test (VRMS,Min)	2000.0
Operating Temp Range (°C)	-55 to 200

### Attenuation ( @ 20 °C)

Frequency	Attenuation	Attenuation
10	1.1	3.6
50	2.6	8.5
100	3.8	12.5
400	7.9	25.9
900	12.3	40.4
1000	13.1	43.0
3000	24.2	79.4
5000	32.6	107.0
8000	50.8	166.7
12400	80.4	263.8